

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for treating a photovoltaically active layer that includes a polymer and a fullerene, the method comprising:
~~with a solvent and/or by annealing, characterized in that said~~ heating the photovoltaically active layer comes into contact with solvent molecules and/or is heated to a temperature of at least 70°C.
2. (Currently Amended) The method as defined in claim 1, wherein ~~said photovoltaically active layer is a polyalkylthiophene that is present in mixture with an additive such as a fullerene,~~ particularly a the fullerene comprises a methanofullerene.
3. (Currently Amended) The method as defined in either of claim 1, wherein ~~[[said]]~~ the photovoltaically active layer is exposed to a solvent vapor.
4. (Currently Amended) The method as defined in claim 3, wherein ~~[[said]]~~ the photovoltaically active layer is exposed to ~~[[said]]~~ the solvent vapor at room temperature.
5. (Currently Amended) The method as defined in claim ~~[[1]]~~ 3, wherein ~~[[said]]~~ the photovoltaically active layer is exposed to ~~[[said]]~~ the solvent vapor for no longer than one minute.
6. (Currently Amended) The method as defined in claim ~~[[1]]~~ 3, wherein ~~[[said]]~~ the solvent comprises a solvent selected from the group consisting of xylene, toluene, butanone, and/or

~~chloroform, and mixtures thereof and/or a further solvent and/or an arbitrary mixture of said solvents at least partially etches or softens said polyalkylthiophene.~~

7. (Currently Amended) The method as defined in claim 1, wherein ~~[[said]]~~ the photovoltaically active layer is ~~annealed at~~ heated to a temperature of at least ~~[[70]]~~ 80°C.

8. (Cancelled).

9. (Currently Amended) A method of treating a photovoltaically active layer that includes a polymer and a fullerene, the method comprising:
contacting the photovoltaically active layer with a solvent molecules vapor.

10. (Currently Amended) The method as defined in claim 9, wherein the ~~photovoltaically active layer~~ polymer comprises~~[[:]]~~ a polyalkylthiophene~~[[;]]~~, and ~~[[a]]~~the fullerene is mixed with the polyalkylthiophene.

11. (Previously Presented) The method of claim 10, wherein the fullerene comprises a methanofullerene.

12. (Currently Amended) The method of claim 9, wherein the ~~solvent comprises~~ photovoltaically active layer contacts the solvent vapor at room temperature.

13. (Cancelled).

14. (Previously Presented) The method of claim 11, wherein the photovoltaically active layer contacts the solvent vapor for no longer than one minute.

15. (Currently Amended) The method of claim 9, wherein the solvent comprises at least one solvent selected from the group consisting of xylene, toluene, butanone, ~~[[and]]~~ chloroform and mixtures thereof.

16. (Currently Amended) The method of claim 9, wherein the solvent at least partially etches or softens the ~~polyalkylthiophene~~ polymer.

17. (Currently Amended) The method of claim 9, further comprising ~~annealing~~ heating the photovoltaically active layer.

18. (Currently Amended) The method of claim 17, wherein the photovoltaically active layer is ~~annealed at~~ heated to a temperature of at least 70°C.

19. (Previously Presented) The method of claim 9, wherein, after treating, the photovoltaically active layer has an absorption maximum in the deep red region.

20. (Currently Amended) A method of treating a photovoltaically active layer that includes a polyalkylthiophene and a methanofullerene, comprising:
heating the photovoltaically active layer at a temperature of at least 70°C.

21. (Previously Presented) The method of claim 20, wherein, after treating, the photovoltaically active layer has an absorption maximum in the deep red region.

22. (Previously Presented) The method of claim 1, wherein, after treating, said photovoltaically active layer has an absorption maximum in the deep red region.